

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/552,291
Source: PCT/10
Date Processed by STIC: 10/18/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 10/18/2005

PATENT APPLICATION: US/10/552,291

TIME: 10:11:21

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

3 <110> APPLICANT: REGEN Biotech, Inc.

5 <120> TITLE OF INVENTION: Use of a peptide that interacts with alpha v beta3 integrin

of

6 endothelial cell

8 <130> FILE REFERENCE: OP04-1024

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/552,291

C--> 10 <141> CURRENT FILING DATE: 2005-10-03

10 <150> PRIOR APPLICATION NUMBER: KR 10-2003-0021065

11 <151> PRIOR FILING DATE: 2003-04-03

13 <160> NUMBER OF SEQ ID NOS: 27

15 <170> SOFTWARE: KopatentIn 1.71

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 683

19 <212> TYPE: PRT

20 <213> ORGANISM: Homo sapiens

22 <400> SEQUENCE: 1

23 Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu Ala Leu

24 1 5 10 15

26 Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu

27 20 25 30

29 Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val

30 35 40 45

32 Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn

33 50 55 60

35 Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile

36 65 70 75 80

38 Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly

39 85 90 95

41 Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val

42 100 105 110

44 Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu

45 115 120 125

47 Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser

48 130 135 140

50 Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val

51 145 150 155 160

53 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val

54 165 170 175

56 Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr

57 180 185 190

59 Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly

60 195 200 205

62 Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala

63 210 215 220

RAW SEQUENCE LISTING

DATE: 10/18/2005

PATENT APPLICATION: US/10/552,291

TIME: 10:11:21

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

```

65 Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
66 225                230                235                240
68 Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
69                245                250                255
71 Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
72                260                265                270
74 Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile
75                275                280                285
77 Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg
78                290                295                300
80 Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala
81 305                310                315                320
83 Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu
84                325                330                335
86 Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile
87                340                345                350
89 Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp
90                355                360                365
92 Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala
93                370                375                380
95 Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu
96 385                390                395                400
98 Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu
99                405                410                415
101 Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg
102                420                425                430
104 Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr
105                435                440                445
107 Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg
108                450                455                460
110 Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala
111 465                470                475                480
113 Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg
114                485                490                495
116 Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp
117                500                505                510
119 Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr
120                515                520                525
122 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn
123                530                535                540
125 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly
126 545                550                555                560
128 Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu
129                565                570                575
131 Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu
132                580                585                590
134 Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val
135                595                600                605
137 Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val

```

RAW SEQUENCE LISTING

DATE: 10/18/2005

PATENT APPLICATION: US/10/552,291

TIME: 10:11:21

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

```

138      610      615      620
140 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
141 625      630      635      640
143 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
144      645      650      655
146 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
147      660      665      670
149 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
150      675      680
153 <210> SEQ ID NO: 2
154 <211> LENGTH: 103
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 2
159 Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser Asn Glu Ala Trp Ala
160 1      5      10      15
162 Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn Ile
163      20      25      30
165 Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu
166      35      40      45
168 Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn
169      50      55      60
171 Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly Ile Val Thr Val Asn
172 65      70      75      80
174 Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val
175      85      90      95
177 His Leu Ile Asp Lys Val Ile
178      100
181 <210> SEQ ID NO: 3
182 <211> LENGTH: 131
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 3
187 Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu Arg
188 1      5      10      15
190 Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly
191      20      25      30
193 Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro
194      35      40      45
196 Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg Asp
197      50      55      60
199 Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala Ile
200 65      70      75      80
202 Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val
203      85      90      95
205 Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile Ser
206      100      105      110
208 Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp Glu
209      115      120      125

```

RAW SEQUENCE LISTING

DATE: 10/18/2005

PATENT APPLICATION: US/10/552,291

TIME: 10:11:21

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

```

211 Leu Leu Ile
212     130
215 <210> SEQ ID NO: 4
216 <211> LENGTH: 129
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 4
221 Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val
222   1             5             10             15
224 Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu
225             20             25             30
227 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe
228             35             40             45
230 Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg
231             50             55             60
233 Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly
234 65             70             75             80
236 Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr
237             85             90             95
239 Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys
240             100            105            110
242 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro
243             115            120            125
245 Pro
249 <210> SEQ ID NO: 5
250 <211> LENGTH: 131
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
254 <400> SEQUENCE: 5
255 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
256   1             5             10             15
258 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
259             20             25             30
261 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
262             35             40             45
264 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
265             50             55             60
267 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
268 65             70             75             80
270 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
271             85             90             95
273 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
274             100            105            110
276 Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val Ile Thr
277             115            120            125
279 Asn Val Leu
280     130
283 <210> SEQ ID NO: 6
284 <211> LENGTH: 85

```

RAW SEQUENCE LISTING

DATE: 10/18/2005

PATENT APPLICATION: US/10/552,291

TIME: 10:11:21

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

```

285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 6
289 Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys
290   1           5           10           15
292 Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val
293           20           25           30
295 Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp
296           35           40           45
298 Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu
299           50           55           60
301 Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val Val His Val
302 65           70           75           80
304 Ile Thr Asn Val Leu
305           85
308 <210> SEQ ID NO: 7
309 <211> LENGTH: 119
310 <212> TYPE: PRT
311 <213> ORGANISM: Homo sapiens
313 <400> SEQUENCE: 7
314 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
315   1           5           10           15
317 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
318           20           25           30
320 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
321           35           40           45
323 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
324           50           55           60
326 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly
327 65           70           75           80
329 Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu
330           85           90           95
332 Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val
333           100          105          110
335 Ala Glu Pro Asp Ile Met Ala
336           115
339 <210> SEQ ID NO: 8
340 <211> LENGTH: 113
341 <212> TYPE: PRT
342 <213> ORGANISM: Homo sapiens
344 <400> SEQUENCE: 8
345 Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met
346   1           5           10           15
348 Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg
349           20           25           30
351 Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala
352           35           40           45
354 Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu
355           50           55           60

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/552,291

DATE: 10/18/2005

TIME: 10:11:22

Input Set : A:\05-10-03 Sequence Listing.txt

Output Set: N:\CRF4\10182005\J552291.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date